

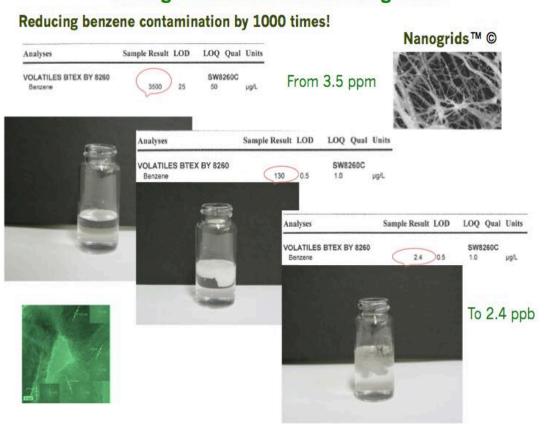
## Ceramic Nanocatalysts Clean Water



## Perena Gouma

Center for Nanomaterials and Sensor Development, SUNY Stony Brook, NY, 11794-2275

## NSF DMR-1046599 / IIP-1156513 Turning Wastewater into Drinking Water



**Outcome**: Novel Metal Oxide Nanogrids<sup>TM</sup> act as visible light photocatalysts cleaning up benzene spill in water

**Impact/Benefits:** This technology may be used to decompose hydrocarbons in petroleum oil spills or in "produced water" waste in-situ

**Explanation:** The unique method used to produce 3D interconnected, self-supported nanofibrous architectures of the CuO-WO<sub>3</sub> system has resulted in a novel photocatalyst that is using the whole solar spectrum to get activated and to break down petroleum products in water